

DEPARTMENT OF TRANSPORTATION

ESC/OE MS #43
1727 30TH Street, 2ND Floor
Sacramento, CA 95816



September 6, 2000

11-SD-125-19.0/21.3
11-010734

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN DIEGO COUNTY IN SAN DIEGO, LA MESA, EL CAJON AND SANTEE FROM 0.3 MILE NORTH OF AMAYA DRIVE OVERCROSSING TO 0.7 MILE SOUTH OF PROSPECT AVENUE UNDERCROSSING.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on September 28, 2000. The original bid opening date was previously postponed indefinitely under Addendum No. 1 dated July 17, 2000.

This addendum is being issued to set a new bid opening date as shown herein and revise the Project Plans, the Notice to Contractors and Special Provisions, and the Proposal and Contract.

Project Plan Sheets 2, 4, 12, 13, 20, 21, 68, 69, 78, 98, 100, 105, 107, 125, 137, 138, 163, 187, 203, 204, 206, 224, 225, 226, 229 and 290 in the original set of plans are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 9A, 41A, 41B, 67A, 67B, 96A, 181A, 181B, 186A and 186B are added. Half-sized copies of the added sheets are attached for addition to the project plans.

Project Plan Sheets 19, 75, 76, 77, 94, 97, 132, 133, 135, 136, 165, 189 and 291 are deleted from the original set of plans.

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES," the third paragraph is revised as follows:

"The work (except plant establishment work) shall be diligently prosecuted to completion before the expiration of 620 WORKING DAYS beginning on the fifteenth calendar day after approval of the contract."

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES," the fifth paragraph is revised as follows:

"The Contractor shall diligently prosecute all work (including plant establishment) to completion before the expiration of 860 WORKING DAYS beginning on the fifteenth calendar day after approval of the contract."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraph is added after the thirteenth paragraph:

"In the vicinity of Grossmont College Drive, traffic shall not be moved from an established path to a new path for four weeks beginning on August 21, 2000, January 22, 2001, August 20, 2001, January 21, 2002, August 19, 2002 and January 20, 2003."

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In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," under the heading "STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL AND UPDATES," the first sentence of paragraph eight is revised as follows:

"The following contract items of work, as shown on the project plans, shall be incorporated into the SWPPP as critical temporary control measures: temporary fiber roll, temporary erosion control, temporary silt fence, temporary straw bale, temporary gravel bag, temporary construction entrance and temporary concrete washout."

In the Special Provisions, Section 10-1.06, "TEMPORARY FIBER ROLLS," the second paragraph is revised as follows:

"Temporary fiber rolls shall be furnished, installed, maintained, and removed at locations shown on the plans, except for fiber rolls placed within the future Route 52/125 interchange at the locations shown in the "Materials Information" shall remain in place."

In the Special Provisions, Section 10-1.21, "MAINTAINING TRAFFIC," the table following the twelfth paragraph is revised as follows:

NAVAJO ROAD UNDERCROSSING			
Bridge No. 57-1050R/L			
Existing Navajo Road			
	Number	Width	Height
Vehicle Openings	2	41	15
Pedestrian Openings	2	5	10
Location and Spacing of Falsework Pavement Lighting			
R and L 22.5 staggered 1/2 space			

(Width and Height in meters.)

(R=right side of traffic. L=left side of traffic)

In the Special Provisions, Section 10-1.24, "TEMPORARY PAVEMENT DELINEATION," under the heading "TEMPORARY TRAFFIC STRIPE (PAINT)," the last sentence of paragraph one is revised as follows:

"Removal of painted temporary traffic stripe will not be required except as shown on the plans."

In the Special Provisions, Section 10-1.24, "TEMPORARY PAVEMENT DELINEATION," under the heading "TEMPORARY PAVEMENT MARKING (PAINT)," the last sentence of paragraph one is revised as follows:

"Removal of painted temporary pavement marking will not be required except as shown on the plans."

In the Special Provisions, Section 10-1.27, "TEMPORARY RAILING," the following paragraph is added after the second paragraph:

"Temporary railing (Type K) shall have scuppers as shown on the plans."

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In the Special Provisions, Section 10-1.27, "TEMPORARY RAILING," the following paragraph is added after the sixth paragraph,:

"Full compensation for scuppers shall be considered as included in the contract unit price paid per linear foot for temporary railing (Type K) and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1.35, "EARTHWORK," paragraph fifteen is deleted in its entirety. The following paragraph is added:

"Excess material shall be placed within the future Route 52/125 interchange at the locations shown in the "Materials Information" available to Contractors. Material shall be placed in the final location to the lines and grades from survey marks established by the Engineer in accordance with Section 5-1.07 "Lines and Grades" of the Standard Specifications. In addition to the requirements of Section 19-6 "Embankment Construction," full compensation for hauling excess material shall be considered as included in the contract price paid for excavating the material or the contract price paid for the item of work requiring the excavation when the excavation is not paid for separately. The following shall also apply:

Embankment shall be constructed at one location at a time beginning at Location 1 and ending at Location 3. Each location shall be completed before work may commence at a new location, unless otherwise directed by the Engineer.

Isolation casings shall be placed at Location 2 as shown in the "Materials Information" prior to placing embankment, as directed by the Engineer. Furnishing and placing isolation casings will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications.

Rocks, broken concrete or other solid materials, which are larger than 0.33-foot in greatest dimension, shall not be placed in embankment areas requiring 95% compaction.

Clearing and grubbing, water pollution control and erosion control (Type D) covered elsewhere in these special provisions shall apply.

Drainage facilities shall be constructed as directed by the Engineer, and will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications."

In the Special Provisions, Section 10-1.37, "NATIVE TOPSOIL," the first sentence in paragraph three is revised as follows:

"Native topsoil shall be obtained by excavating the top one-foot of existing material between stations 95+53 "NR2" Line and 109+08 "FCE" Line; and between stations 10+23 and 26+46 "BIKE" Line."

In the Special Provisions, Section 10-1.37, "NATIVE TOPSOIL," paragraph five is revised as follows:

"Native topsoil shall be placed on serrated slopes to receive ground cover prior to planting."

In the Special Provisions, Section 10-1.57, "ROADSIDE SIGNS," paragraph two is revised as follows:

"Type N and Type K marker panels mounted on a post with a roadside sign shall be considered to be sign panels and will not be paid for as markers."

In the Special Provisions, Section 10-1.78, "CONCRETE BARRIER," the following paragraph is added after the first paragraph:

"Attention is directed to "Order of Work" elsewhere in these special provisions."

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In the Special Provisions, Section 10-1.81, "PAVEMENT MARKERS," paragraph four is revised as follows:

"Epoxy adhesive shall not be used to place temporary pavement markers on asphalt concrete surfacing in areas where removal of the markers will be required."

In the Special Provisions, Section 10-4.02, "WATER SYSTEM RELOCATION," under the heading "SHUTDOWN TIME TABLE FOR WATER MAINS," the first paragraph is revised as follows:

"The Contractor shall notify the Engineer 5 working days in advance of any planned shutdown except for Grossmont College Drive 16" waterline. Attention is directed to "Order of Work" elsewhere in these special provisions."

In the Special Provisions, Section 10-1.37A, "EROSION CONTROL (TYPE D)," is added as attached..

In the Proposal and Contract, the Engineer's Estimate Items 9, 10, 11, 13, 15, 29, 34, 35, 36, 43, 49, 59, 60, 61, 62, 63, 64, 65, 66, 67, 74, 90, 91, 97, 98, 99, 104, 119, 120, 122, 123 and 124 are revised, Item 166 is added and Items 94, 96, and 153 are deleted as attached.

To Proposal and Contract book holders:

Attached is a copy of the Materials Information.

Replace the entire Engineer's Estimate in the Proposal with the attached revised Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it.

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

NICK YAMBAO, Chief
Office of Plans, Specifications & Estimates
Division of Office Engineer

Attachments

10-1.37A EROSION CONTROL (TYPE D)

Erosion control (Type D) shall conform to the provisions in Section 20-3, "Erosion Control," of the Standard Specifications and these special provisions.

Erosion control (Type D) work shall consist of applying erosion control materials to embankment slopes 4:1 or steeper, and other areas designated by the Engineer. Erosion control (Type D) shall be applied during the period starting September 15 and ending November 1; or, if the slope on which the erosion control is to be placed is finished during the winter season as specified in "Water Pollution Control" elsewhere in these special provisions the erosion control shall be applied immediately; or, if the slope on which the erosion control is to be placed is finished outside both specified periods and the contract work will be completed before September 15, the erosion control shall be applied as a last item of work.

Prior to installing erosion control materials, soil surface preparation shall conform to the provisions in Section 19-2.05, "Slopes," of the Standard Specifications, except that rills and gullies exceeding 2 inches in depth or width shall be leveled. Vegetative growth, temporary erosion control materials and other debris shall be removed from areas to receive erosion control.

MATERIALS.—Materials shall conform to Section 20-2, "Materials," of the Standard Specifications and the following:

SEED.—Seed shall conform to the provisions in Section 20-2.10, "Seed," of the Standard Specifications. Individual seed species shall be measured and mixed in the presence of the Engineer.

Seed not required to be labeled under the California Food and Agricultural Code shall be tested for purity and germination by a seed laboratory certified by the Association of Official Seed Analysts, or a seed technologist certified by the Society of Commercial Seed Technologists.

Seed shall have been tested for purity and germination not more than one year prior to application of seed.

Results from testing seed for purity and germination shall be furnished to the Engineer prior to applying seed.

LEGUME SEED.—Legume seed shall be pellet-inoculated or industrial-inoculated.

Pellet-inoculated seed shall be inoculated in accordance with the provisions in Section 20-2.10, "Seed," of the Standard Specifications.

Inoculated seed shall have a calcium carbonate coating.)

Pellet-inoculated seed shall be sown within 90 days after inoculation.

Industrial-inoculated seed shall be inoculated with Rhizobia and coated using an industrial process by a manufacturer whose principal business is seed coating and seed inoculation.

Industrial-inoculated seed shall be sown within 180 calendar days after inoculation.

Legume seed shall consist of the following:

LEGUME SEED		
Botanical Name (Common Name)	Percent (Min- imum) Germination	Pounds pure live seed per acre (Slope measur- ement)
Lupinus bicolor (Pigmy-Leaf Lupine)	40	4
Lupinus succulentus (Arroyo Lupine)	40	5

NON-LEGUME SEED.—Non-legume seed shall consist of the following:

NON-LEGUME SEED		
Botanical Name (Common Name)	Percent (Minimum) Germination	Pounds pure live seed per acre (Slope measurement)
Eschscholzia californica (California Poppy)	35	6
Elymus glaucus (Blue Wild Rye)	40	9
Vulpia microstachys (Small Fescue)	45	4

Seed shall be delivered to the job site in unopened separate containers with the seed tag attached. Containers without a seed tag will not be accepted.

A sample of approximately one ounce of seed will be taken from each seed container by the Engineer.

COMMERCIAL FERTILIZER.—Commercial fertilizer shall conform to the provisions in Section 20-2.02, "Commercial Fertilizer," of the Standard Specifications and shall have a guaranteed chemical analysis range of 16-12 percent nitrogen, 10-12 percent phosphoric acid and 5-12 percent water soluble potash.

STRAW.—Straw shall be derived from rice.

COMPOST

Compost shall be derived from green material consisting of chipped, shredded or ground vegetation or clean processed recycled wood products or a Class A, exceptional quality biosolids composts, as required by the United States Environmental Protection Agency (EPA), 40 CFR, Part 503c regulations or a combination of green material and biosolids compost. The compost shall be processed or completed to reduce weed seeds, pathogens and deleterious material, and shall not contain paint, petroleum products, herbicides, fungicides or other chemical residues that would be harmful to plant or animal life. Other deleterious material, plastic, glass, metal or rocks shall not exceed 0.1 percent by weight or volume. A minimum internal temperature of 57°C shall be maintained for at least 15 continuous days during the composting process. The compost shall be thoroughly turned a minimum of 5 times during the composting process and shall go through a minimum 90-day curing period after the 15-day thermophilic compost process has been completed. Compost shall be screened through a maximum 1/4 inch screen. The moisture content of the compost shall not exceed 35 percent. Moisture content shall be determined by California Test 226. Compost products with a higher moisture content may be used provided the weight of the compost is increased to equal the compost with a moisture content of 35 percent. Compost will be tested for maturity and stability with a solvita test kit. The compost shall measure a minimum of 6 on the maturity and stability scale.

STABILIZING EMULSION .—Stabilizing emulsion shall conform to the provisions in Section 20-2.11, "Stabilizing Emulsion," of the Standard Specifications and these special provisions.

The requirement of an effective life of at least one year for stabilizing emulsion shall not apply.

Stabilizing emulsion shall be in a dry powder form, may be reemulsifiable, and shall be a processed organic adhesive used as a soil binder.

APPLICATION.—Erosion control materials shall be applied in 4 separate applications in the following sequence:

The following mixture in the proportions indicated shall be applied with hydro-seeding equipment within 60 minutes after the seed has been added to the mixture:

Material	Pounds per acre (Slope measurement)
Fiber	400
Compost	1500
Non-Legume Seed	19
Legume Seed	9

Straw shall be applied at the rate of one ton per acre based on slope measurements. Incorporation of straw will be required.

A second application of straw shall be applied at the rate of 2 tons per acre based on slope measurements. Incorporation of straw will not be required on the second application of straw. Straw shall be applied in an even, smooth layer without wads or clumps of straw.

The following mixture in the proportions indicated shall be applied with hydro-seeding equipment:

Material	Pounds per acre (Slope measurement)
Fiber	400
Compost	1500
Commercial Fertilizer	100
Stabilizing emulsion (solids)	200

The ratio of total water to total stabilizing emulsion in the mixture shall be as recommended by the manufacturer.

Once the second application of straw work is started in an area, the remaining applications shall be completed in that area on the same working day.

The proportions of erosion control materials may be changed by the Engineer to meet field conditions.

Full compensation for compost shall be considered as included in the contract unit price paid per acre for erosion control (type D) and no separate payment will be made.

ENGINEER'S ESTIMATE**11-010734**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	018401	PRECONSTRUCTION SURVEY	LS	LUMP SUM	LUMP SUM	
2	070010	PROGRESS SCHEDULE (CRITICAL PATH)	LS	LUMP SUM	LUMP SUM	
3	018402	TEMPORARY FIRE PROTECTION	LS	LUMP SUM	LUMP SUM	
4 (S)	018403	TEMPORARY FENCE (TYPE CL-6, SLATTED)	LF	2300		
5 (S)	073000	TEMPORARY CULVERT	LF	490		
6 (S)	018404	TEMPORARY INLET	EA	3		
7	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
8	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
9 (S)	074023	TEMPORARY EROSION CONTROL	ACRE	50		
10	074028	TEMPORARY FIBER ROLL	LF	29 300		
11	074029	TEMPORARY SILT FENCE	LF	24 600		
12	018405	TEMPORARY STRAW BALE BARRIER	EA	380		
13	018406	TEMPORARY GRAVEL BAG	EA	7600		
14	018407	TEMPORARY CONCRETE WASHOUT	EA	2		
15	018408	TEMPORARY CONSTRUCTION ENTRANCE	EA	5		
16 (S)	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
17 (S)	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
18 (S)	120116	TYPE II BARRICADE	EA	11		
19 (S)	120120	TYPE III BARRICADE	EA	32		
20 (S)	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	1690		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21 (S)	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	30 860		
22 (S)	120165	CHANNELIZER (SURFACE MOUNTED)	EA	81		
23 (S)	018409	TRAFFIC PLASTIC DRUM	EA	140		
24 (S)	120300	TEMPORARY PAVEMENT MARKER	EA	2160		
25 (S)	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	6		
26 (S)	129000	TEMPORARY RAILING (TYPE K)	LF	25 900		
27 (S)	129100	TEMPORARY CRASH CUSHION MODULE	EA	120		
28	150206	ABANDON CULVERT	EA	4		
29	150221	ABANDON INLET	EA	1		
30	150227	ABANDON PIPELINE	EA	2		
31	150662	REMOVE METAL BEAM GUARD RAILING	LF	65		
32	150717	REMOVE TRAFFIC STRIPE AND PAVEMENT MARKING	SQFT	29 800		
33	150730	REMOVE CHANNELIZERS	EA	72		
34	150742	REMOVE ROADSIDE SIGN	EA	21		
35	152390	RELOCATE ROADSIDE SIGN	EA	2		
36 (S)	153112	COLD PLANE ASPHALT CONCRETE PAVEMENT (.15' MAXIMUM)	SQYD	410		
37	153210	REMOVE CONCRETE	CY	55		
38	153229	REMOVE CONCRETE BARRIER (TYPE K)	LF	5760		
39	156590	REMOVE CRASH CUSHION (SAND FILLED)	EA	24		
40	048234	JACK SUPERSTRUCTURE	LS	LUMP SUM	LUMP SUM	

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
42	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
43	190101	ROADWAY EXCAVATION	CY	955 000		
44 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	4475		
45 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	7652		
46 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	5365		
47 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	6072		
48	193031	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CY	470		
49	193114	SAND BACKFILL	CY	55		
50 (S)	200001	HIGHWAY PLANTING	LS	LUMP SUM	LUMP SUM	
51 (S)	018410	NATIVE TOPSOIL	SQYD	34 400		
52 (S)	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
53 (S)	208000	IRRIGATION SYSTEM	LS	LUMP SUM	LUMP SUM	
54	208029	4" SUPPLY LINE (BRIDGE)	LF	606		
55 (S)	208706	4" CONDUIT	LF	520		
56 (S)	208738	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	3130		
57 (S)	018411	MODIFY IRRIGATION CROSSOVER	LS	LUMP SUM	LUMP SUM	
58	220101	FINISHING ROADWAY	LS	LUMP SUM	LUMP SUM	
59	260201	CLASS 2 AGGREGATE BASE	CY	67 200		
60	290201	ASPHALT TREATED PERMEABLE BASE	CY	4500		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	390155	ASPHALT CONCRETE (TYPE A)	TON	20 800		
62	390171	ASPHALT CONCRETE BASE (TYPE A)	TON	15 900		
63	394001	PLACE ASPHALT CONCRETE DIKE	LF	28 100		
64	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	SQYD	2860		
65	397007	ASPHALTIC EMULSION (FOG SEAL COAT AND PAINT BINDER)	TON	15		
66	401000	CONCRETE PAVEMENT	CY	13 500		
67	404092	SEAL PAVEMENT JOINT	LF	70 100		
68 (S)	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
69 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	1305		
70 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	5435		
71 (F)	510085	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	CY	51		
72 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	320		
73 (F)	510108	CLASS A CONCRETE (RETAINING WALL)	CY	2164		
74 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	194		
75 (F)	018412	RIBBED TEXTURE	SQFT	8360		
76 (F)	511064	FRACTURED RIB TEXTURE	SQFT	15 650		
77 (S-F)	518002	SOUND WALL (MASONRY BLOCK)	SQFT	18 300		
78 (S)	519085	JOINT SEAL (TYPE B-MR 1")	LF	290		
79 (S)	519087	JOINT SEAL (TYPE B-MR 2")	LF	180		
80 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	1 322 000		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81 (S-F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	206 621		
82 (F)	560213	FURNISH SIGN STRUCTURE (LIGHTWEIGHT)	LB	18 700		
83 (S-F)	560214	INSTALL SIGN STRUCTURE (LIGHTWEIGHT)	LB	18 700		
84 (S-F)	560218	FURNISH SIGN STRUCTURE (TRUSS)	LB	101 380		
85 (S-F)	560219	INSTALL SIGN STRUCTURE (TRUSS)	LB	101 380		
86 (F)	560223	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITHOUT WALKWAY)	LB	870		
87 (S-F)	560224	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITHOUT WALKWAY)	LB	870		
88 (S)	561004	30" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	110		
89 (S)	561005	36" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	170		
90	566011	ROADSIDE SIGN - ONE POST	EA	73		
91	566012	ROADSIDE SIGN - TWO POST	EA	17		
92	568007	INSTALL SIGN OVERLAY	SQFT	180		
93	568016	INSTALL SIGN PANEL ON EXISTING FRAME	SQFT	310		
94	BLANK					
95	568023	INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST)	EA	2		
96	BLANK					
97	620140	24" ALTERNATIVE PIPE CULVERT	LF	4900		
98	620220	36" ALTERNATIVE PIPE CULVERT	LF	2440		
99	665817	18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	LF	200		
100	681103	3" PLASTIC PIPE (EDGE DRAIN)	LF	12 900		

ENGINEER'S ESTIMATE**11-010734**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	681107	3" PLASTIC PIPE (EDGE DRAIN OUTLET)	LF	1130		
102	690224	24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	LF	230		
103	705930	10" GATE VALVE	EA	2		
104	707417	36" PRECAST CONCRETE PIPE RISER	LF	11		
105	018413	10" CEMENT MORTAR LINED AND EPOXY COATED STEEL PIPE	LF	370		
106	018414	16" CEMENT MORTAR LINED AND EPOXY COATED STEEL PIPE	LF	370		
107	018415	10" POLYVINYL CHLORIDE PIPE C900, CLASS 150	LF	820		
108	018416	16" POLYVINYL CHLORIDE PIPE C905, PR235	LF	1380		
109	018417	CATHODIC PROTECTION TEST STATION	EA	4		
110	018418	1" AUTOMATIC AIR VACUUM COMBINATION VALVE ASSEMBLY	EA	2		
111	018419	2" AUTOMATIC AIR VACCUM COMBINATION VALVE ASSEMBLY	EA	1		
112	018420	18" PIPE CASING	LF	40		
113	018421	30" PIPE CASING	LF	40		
114	018422	2" BLOW OFF ASSEMBLY	EA	1		
115	018423	16" BUTTERFLY VALVE (FLG)	EA	2		
116	018424	16" BUTTERFLY VALVE (TEMPORARY)(FLG)	EA	2		
117 (F)	721810	SLOPE PAVING (CONCRETE)	CY	64		
118 (F)	721811	SLOPE PAVING (MASONRY BLOCK)	SQFT	4070		
119	727902	MINOR CONCRETE (SLOPE PROTECTION)	CY	830		
120	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	250		

ENGINEER'S ESTIMATE**11-010734**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	731517	MINOR CONCRETE (GUTTER)	CY	33		
122	018425	MINOR CONCRETE (COLORED)	CY	1860		
123	018426	MINOR CONCRETE (GROOVED)	SQFT	500		
124 (S-F)	750001	MISCELLANEOUS IRON AND STEEL	LB	26 628		
125 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	1330		
126 (S)	800361	CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	LF	2520		
127 (S)	800365	CHAIN LINK FENCE (TYPE CL-6, SLATTED)	LF	680		
128	820107	DELINEATOR (CLASS 1)	EA	190		
129 (S)	832001	METAL BEAM GUARD RAILING	LF	1510		
130 (S-F)	833032	CHAIN LINK RAILING (TYPE 7)	LF	777		
131 (S)	833088	TUBULAR HANDRAILING	LF	590		
132 (F)	833125	CONCRETE BARRIER (TYPE 25)	LF	1255		
133	833127	CONCRETE BARRIER (TYPE 25B)	LF	760		
134	833129	CONCRETE BARRIER (TYPE 25A MODIFIED)	LF	280		
135 (F)	833142	CONCRETE BARRIER (TYPE 26 MODIFIED)	LF	388		
136	833143	CONCRETE BARRIER (TYPE 26A MODIFIED)	LF	590		
137 (S-F)	839521	CABLE RAILING	LF	950		
138 (S)	839530	CABLE ANCHOR ASSEMBLY	EA	8		
139 (S)	839532	CABLE ANCHOR ASSEMBLY (BREAKAWAY, TYPE B)	EA	5		
140 (S)	839551	TERMINAL SECTION (TYPE B)	EA	3		

ENGINEER'S ESTIMATE
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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141 (S)	839565	TERMINAL SYSTEM (TYPE SRT)	EA	8		
142 (S)	839570	RETURN SECTION	EA	8		
143 (S)	840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	720		
144 (S)	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	10 300		
145 (S)	840508	8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	LF	4400		
146 (S)	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	4030		
147 (S)	840521	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1)	LF	780		
148 (S)	840526	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	LF	1200		
149 (S)	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	125 200		
150 (S)	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	4200		
151 (S)	850102	PAVEMENT MARKER (REFLECTIVE)	EA	3100		
152 (S)	860251	SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
153 (S)	BLANK					
154 (S)	860253	SIGNAL AND LIGHTING (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
155 (S)	860254	SIGNAL AND LIGHTING (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
156 (S)	018427	SIGNAL AND LIGHTING (LOCATION 3, STAGE 2)	LS	LUMP SUM	LUMP SUM	
157 (S)	018428	SIGNAL AND LIGHTING (LOCATION 3, STAGE 4)	LS	LUMP SUM	LUMP SUM	
158 (S)	018429	SIGNAL AND LIGHTING (LOCATION 3, STAGE 5)	LS	LUMP SUM	LUMP SUM	
159 (S)	018430	LIGHTING (BIKE PATH)	LS	LUMP SUM	LUMP SUM	
160 (S)	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	

ENGINEER'S ESTIMATE
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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161 (S)	860640	IRRIGATION CONTROLLER ENCLOSURE CABINET	EA	4		
162 (S)	860792	COMMUNICATION CONDUIT (BRIDGE)	LF	460		
163 (S)	860796	SPRINKLER CONTROL CONDUIT (BRIDGE)	LF	840		
164 (S)	860797	ELECTRIC SERVICE (IRRIGATION)	LS	LUMP SUM	LUMP SUM	
165 (S)	861100	RAMP METERING SYSTEM	LS	LUMP SUM	LUMP SUM	
166	203016	EROSION CONTROL (TYPE D)	ACRE	21		
167	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID: _____